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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of the Claims

- 1-36. (Cancelled).
- 37. (New) An electrosurgical instrument having an end effector, the end effector configured to simultaneously provide radio frequency power and a fluid to treat tissue, the power sufficient to cause a dimensional change of the tissue, the end effector comprising:
 - at least one electrode;
 - at least one fluid outlet; and
 - a dimensional change sensor to detect the dimensional change of the tissue.
- 38. (New) The electrosurgical instrument of claim 37 wherein:
 the dimensional change sensor is configured to move relative to the dimensional change of the tissue.
- 39. (New) The electrosurgical instrument of claim 37 wherein: the dimensional change sensor is configured to provide feedback to vary the radio frequency power according to the dimensional change of the tissue.
- 40. (New) The electrosurgical instrument of claim 37 wherein:
 the dimensional change sensor is configured to provide feedback to treat the tissue to a
 predetermined dimensional change.

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- 41. (New) The electrosurgical instrument of claim 37 wherein:
 the dimensional change sensor is configured to provide feedback to measure the dimensional change.
- 42. (New) The electrosurgical instrument of claim 37 wherein:

 the dimensional change sensor is operatively associated with a device to provide a measurement of the dimensional change.
- 43. (New) The electrosurgical instrument of claim 37 wherein:
 the dimensional change sensor is operatively associated with means to provide a
 measurement of the dimensional change.
- 44. (New) The electrosurgical instrument of claim 37 wherein: the dimensional change sensor comprises a contact sensor.
- 45. (New) The electrosurgical instrument of claim 37 wherein:
 the dimensional change sensor comprises a shrinkage sensor; and
 the dimension change of the tissue comprises a shrinkage of the tissue.
- 46. (New) The electrosurgical instrument of claim 45 wherein:
 the shrinkage sensor is configured to move relative to the shrinkage of the tissue.
- 47. (New) The electrosurgical instrument of claim 45 wherein:

 the shrinkage sensor is configured to provide feedback to vary the radio frequency power according to the shrinkage of the tissue.

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- 48. (New) The electrosurgical instrument of claim 45 wherein:
 the shrinkage sensor is configured to provide feedback to treat the tissue to a predetermined shrinkage.
- 49. (New) The electrosurgical instrument of claim 45 wherein: the shrinkage sensor is configured to provide feedback to measure the shrinkage.
- 50. (New) The electrosurgical instrument of claim 45 wherein:

 the shrinkage sensor is operatively associated with a device to provide a measurement of the shrinkage.
- 51. (New) The electrosurgical instrument of claim 45 wherein: the shrinkage sensor is operatively associated with means to provide a measurement of the shrinkage.
- 52. (New) The electrosurgical instrument of claim 37 further comprising: a monopolar electrosurgical instrument.
- 53. (New) The electrosurgical instrument of claim 37 further comprising: a bipolar electrosurgical instrument.
- 54. (New) The electrosurgical instrument of claim 37 wherein:
 the at least one fluid outlet is positioned to provide the fluid onto the at least one electrode.
- 55. (New) The electrosurgical instrument of claim 37 wherein:
 the at least one fluid outlet is at least partially defined by the at least one electrode.

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- 56. (New) The electrosurgical instrument of claim 37 wherein:
 the at least one fluid outlet is at least partially defined by a hole in the at least one electrode.
- 57. (New) The electrosurgical instrument of claim 37 wherein:
 the at least one fluid outlet is configured to provide the fluid to wet the at least one electrode.
- 58. (New) The electrosurgical instrument of claim 37 wherein: the at least one electrode comprises a plurality of electrodes.
- 59. (New) The electrosurgical instrument of claim 37 wherein: the at least one fluid outlet comprises a plurality of fluid outlets.
- 60. (New) The electrosurgical instrument of claim 37 wherein: the at least one electrode comprises a first electrode and a second electrode; and the at least one fluid outlet comprises a first fluid outlet and a second fluid outlet.
- 61. (New) The electrosurgical instrument of claim 60 wherein: the first fluid outlet is positioned to provide the fluid onto the first electrode; and the second fluid outlet is positioned to provide the fluid onto the second electrode.
- 62. (New) The electrosurgical instrument of claim 60 wherein:
 the first fluid outlet is configured to provide the fluid to wet the first electrode; and
 the second fluid outlet is configured to provide the fluid to wet the second electrode.

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- 63. (New) The electrosurgical instrument of claim 37 wherein: the end effector comprises a jaw.
- 64. (New) The electrosurgical instrument of claim 37 wherein: the end effector comprises a forceps.
- 65. (New) The electrosurgical instrument of claim 37 wherein:
 the dimensional change sensor comprises a clamp structure to grasp the tissue.